

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Christopher T. Brown, et al

SYNTHESIS FOR POLYCYCLIC  
AROMATIC HYDROCARBON  
COMPOUNDS

Serial No. To Be Assigned

Filed Herewith

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Group Art Unit: To Be Assigned

Examiner: To Be Assigned

Express Mail Label No. EV293530159US

March 30, 2004  
Date

Sir:

**INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION**  
**BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99**

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

Applicants request that the Patent and Trademark Office make of record the above-identified documents. A full text copy of each document is attached, except for copies of U.S. patents and U.S. patent application publications. For documents not in English, an English translation or an equivalent English language patent or publication may be attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement (hereinafter "Statement") is submitted according to the following selected paragraph:

- I. ☒ This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the mailing of a first Office action on the merits or before the mailing of a first Office action after the filing of a request for continued examination.
- II. ☐ This Statement is being filed under §1.97(c), with fee, **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Certification is enclosed.

III. ☐ This Statement is being filed under §1.97(c), with a certification under, §1.97(e) **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):

☐ each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

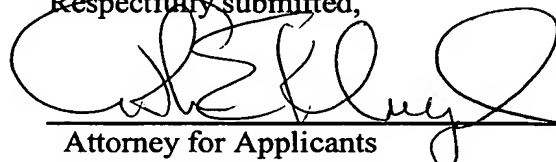
IV. ☐ This Statement is being filed under §1.97(d), with fee and certification under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Certification is enclosed. The undersigned hereby states that (check one):

☐ each item of information in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Arthur E. Kluegel/dlm  
Telephone: 585-477-2625  
Facsimile: 585-477-1148  
Enclosures

Respectfully submitted,

  
\_\_\_\_\_  
Attorney for Applicants  
Registration No. 25,518

<b>FORM PTO-1449</b> <b>US DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>		Atty. Docket No. <b>84927AEK</b> Customer No. 01333		Serial No.	
If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee		Applicant: <b>Christopher T. Brown, et al</b>			
<b>LIST OF ART CITED BY APPLICANT</b> <i>(Use several sheets if necessary)</i>		Filing Date		Group <b>To Be Assigned</b>	

U.S. PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS							
Examiner Initial*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	JP98330295	12-15-1998	JP			X	
	2002-110353	04-12-2002	JP				X
	2003-104916	04-09-2003	JP				X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Braun, J, Manz, G., Julius v. Brun und Gottfried Manz: Fluoranthen und seine Derivate (VI. Mitell.), 1937, pp. 1603-1610
	Lang, K. F., et al, 1.16-Benzperiflanthen, Chem., Ber., 1962, pp. 673-675
	Kovacic, P., et al, "Polymerization of Benzene to p-Polyphenyl by Ferric Chloride", 1963, pp. 1864-1868
	Sep, W. J. et al, "Formation of Aromatic Radical-Cations by Oxidation with Electronegatively Substituted Quinones in Acid Media; Kinetics and Mechanism", 1979, Vol. 35, pp. 2161-2168
	McKillop, A., et al, J. Am. Chem. Soc., "Thallium in Organic Synthesis. 58. Regiospecific Intermolecular Oxidative Dehydrodimerization of Aromatic Compounds to Biaryls Using Thallium(III) Trifluoroacetate", 1980, 102, pp. 6504-6512
	Kovacic, P. et al, "Dehydro Coupling of Aromatic Nuclei by Catalyst-Oxidant Systems: Poly (p-phenylene)", Chem Rev., 1987, 87, pp. 357-379
	Mitchell, R. H., et al, "Straining Strained Molecules. III. The Spectral and Mutagenic Properties and an Alternate Synthesis of Diaceperylene and Dicyclopental[1,2,3-cd: 1',2', 3'-Im]perylene", Can. J. Chem. 70, 1992, pp. 1015-1021
	Anton, U., et al, "Synthesis of n-Alkyl-Substituted Perylenes and Terrylenes via Alkali-Metl Induced Cyclization of Oligonaphthylenes", Chem. Ber., 1992, 125, pp. 2325-2330
	Percec, V. et al, "Synthesis of Aromatic Polyethers by Cation-Radical Polymerization", Makromol. Chem., Macromol. Symp. (1992), 54/55, pp. 337-356
	Wassmundt, F. W., et al, "Soluble Catalysts for Improved Pschorr Cyclizations", J. Org. Chem. 1995, 60, pp. 196-201
	Ciminale, F. et al, "Aminium Salts-Induced Dimerization of a-Methylstyrene and 1-Aryl-1-Phenylethylenes. Solvent Effect.", Tetrahedron, Vol 52, No. 44 (1996), pp. 13971-13980
	Debad, J. D., et al, "Dibenzotetraphenylperiflanthene: Synthesis, Photophysical Properties, and Electrogenated Chemiluminescence", J. Am. Chem. Soc. 118, (1996), pp. 2374-2379
	Debad, J. D., et al, "Anodic Coupling of Diphenylbenzo[k]fluoranthene: Mechanistic and Kinetic Studies Utilizing Cyclic Voltammetry and Electrogenated Chemiluminescence", J. Org. Chem., 62, (1997), pp. 530-537
	Wirth, T., et al, "Hypervalent Iodine Compounds: Recent Advances in Synthetic Applications", Synthesis, No. 8, (1999), pp. 1271-1287
	Dotz, F., et al, "Synthesis of Large Polycyclic Aromatic Hydrocarbons: Variation of Size and Periphery", J. Am. Chem. Soc., 122, (2000), pp. 7707-7717

	Tsuda, A., et al, "Fully Conjugated Porphyrin Tapes with Electronic Absorption Bands that Reach into Infrared", Vol. 293, (2001), pp. 79-82
	Gryko, D. T., et al, "A Simple and Versatile One-Pot Synthesis of meso-Substituted trans-A <sub>2</sub> B-Corroles", J. org. Chem., 66, (2001), pp. 4267-4275
	Wehmeier, M., et al, "Novel Perylene Chromophores Obtained by a Facile Oxidative Cyclodehydrogenation Route", Chem. Eur. J., 7, No. 10, pp. 2197-2205
	Ciminale, F., et al, "Acid Catalysis in the Aminium Hexachloroantimonate-Induced Cyclodimerization of 1-Aryl-1-phenylethylenes", Eur. J. Org. Chem., (2002), pp. 3850-3854
	Fabrizio, E. F., et al, "Photophysical, Electrochemical, and Electrogenerated Chemiluminescent Properties of 9,10-Dimethyl-7,12-diphenylbenzo[k]fluoranthene and 9,10-Dimethylsulfone-7,12-diphenylbenzo[k]fluoranthene", J. Phys. Chem., 106, (2002), pp. 1961-1968
	Cristiano, M. L. S., et al, "Investigations into the Mechanism of Action of Nitrobenzene as a Mild Dehydrogenating Agent Under Acid-Catalysed Conditions", Org. Biomol. Chem., 1, (2003), pp. 565-574
	Gryko, D. T., et al, "Simple Route to Meso-Substituted Trans-A <sub>2</sub> B <sub>2</sub> -Porphyrins Bearing Pyridyl Units", Tetrahedron Letters, 44, (2003) pp. 3317-3321

EXAMINER	DATE CONSIDERED
<p><small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small></p>	